orm PT	O-14	149					U.S	. D	epartment	of Commerce RC	Atty. Dock	et No.	Serial No. 08/477,	
	INF	ص: اص:	2M	ΑТ	ΉO					CITATION 15	Applicant). Livingston		
									s if necessa		150 ng Date	9	Group 3508	
-				_					U.S. PA	TENT DOCUME	NTS			
xaminer iitial	Document Number Date Name Class									Class	Subclass	Filing Date if Appropriate		
14		4	5	5	7	9	3	1	12/10/85	Irie et al	Exhibit	2	12/02/	82
M		5	1	0 2 6 6 3					04/07/92	Livingston et al.	Exhibit	3	10/18/	88
					<u> </u>	-	\vdash					GRO.	PÉC.	
							T					G. 1	W S	1VA
												TO O	0 4	gy V
													10 <u>7 </u>	
												<u> </u>	.00	20 _
			ļ Ļ					Ļ		DA TENER DOCUM	MENTS	<u> </u>		<u> </u>
	T	Τ_				_				PATENT DOCU	Class	Subclass	Tran	slation
		L	OCI	um(ent	NI	uml	er	Date	Country	Class	Subclass	Yes	No
					L							<u> </u>	1	
		L	_		_	\perp	\perp	↓_						
		_	_	_	↓_	-	\bot	\bot						
	ļ	<u> </u>	\vdash	-	\dotplus	+	+	ļ	<u> </u>					
	<u> </u>	<u></u>		<u></u>					TOPE (T.)	l'a Andhan Tidle	Data Bart	in ant Pages	Fto)	
	1									ding Author, Title ific Immunotherapy				cinoma
M										ated Glycoconjuga				
	+	7							1314 (Exhi		ic , cancor i		, <u>, -/-</u>	. ,
		1 V	JI.	JU.	va	ニーン	,,,		(//	· <i>,</i>				
					٠									

from Quillaja Saponaria Molina Cortex", The Journal of Immunology, January 15, 1991,

DATE CONSIDERED

6/7/76

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Philip O. Livingston et al. U.S. Serial No.: 08/477,097

filed: 06/07/95

Exhibit 1

K

EXAMINER

Sheet 2 of 7

Fórm PTC)-144 !	9	-	•	T F	J.S. I Paten	Department and Trac	t of Commerce	Atty. Doc 43016-E	3	Serial N 08/477	•			
]	NFO				ע דו	130	LOSUKE (CITATIONEC	T mmp). Livingston					
_		(U	se s	eve	eral	shee	ts if necess		Filing Dat 06/07/95		Group 3508				
							U.S. PA	TENTOGGUNDEN	TS						
Examiner Initial	-	Doc	ume	ent N	Numl	oer	Date	Name	Class	Subclass	Filing Date if Appropriate				
		-	\dashv	\dashv	\dashv	+	 								
		\vdash	\dashv		\dashv	-									
				-		+			+ -	1		<u> </u>			
<u> </u>						1									
				_											
						\perp						·			
	L	<u> </u>													
				1	NT	nber	Date	PATENT DOCUM	Class	Subclass	Two	nslation			
	"	ocu	ime	III J	Nun	iber	Date	Country	Class	Subciass	Yes	No			
				Į		T		_			103				
		<u> </u>							<u> </u>		<u> </u>				
1								ling Author, Title,	Date, Pert	inent Pages,	Etc.)				
	Vo	ol. 1	46,	No	. 2,	page	s 431-437 (Exhibit 5)							
	Li	ving	stor	1 P.	O.,	et al.	, "Characte	rization of IgG and	IgM Antib	odies Induced	l in Mela	anoma			
M	Pa	Patients by Immunization with Purified G _{M2} Ganglioside", Cancer Research, December 15,													
		89,	Vol	.49	, pa	ges 7	045-7050 (Exhibit 6)	· ··						
EXAMINER		A-	Ga	40			61	7)91 r not citation is in co							
*EXAMINER: I	nitial not in	if c	itat	ion ince	cons	idere	d, whether o	r'not citation is in co	onformance w	ith MPEP 609: D communication	raw line to applic	through ant.			

									1	Sheet 3	of 7	
Form PTO	-1449)			U.S Pat	S. D tent	epartment and Trad	t of Commerce lemanki Office O	Atty. Doc. 43016-	ket N. B	Serial N 08/477	
								DEC 4	Applicant			<u></u>
I	NFO	RMA	AT.	ION	DIS	CI	OSURE (CITATION 5	Philip C). Livingston	et al.	
		(Us	e s	ever	al sh	eet	s if necess	ary) 2 1995	Filing Dat 06/07/9		Group 3508	
							U.S. PA	TENT DOCUMENT	rs	-		
Examiner Initial		Docu	mei	nt Nu	mber		Date	Name	Class	Subclass	Filing Date if Appropriate	
			_								ļ	· <u>-</u> .
			4	_								
			\dashv		-						ļ	
	+	\dashv	4	_	4				_		<u> </u>	
		_	\dashv		+				1		<u> </u>	_
	+		\dashv	+	+							<u></u>
	\perp	\dashv	+	+	+							
	+		-	+	+							
			\dashv		+							
<u> </u>	l				<u> </u>	F	OREIGN	LATENT DOCUME	L ENTS	.]	<u>l</u>	
	D	ocur	nei	nt Ni	ımb		Date	Country	Class	Subclass	Translation	
											Yes	No
									<u> </u>			
	\perp		\perp	\perp								
			\perp	\perp								
											:	
	OT	HEF	R D	OC1	UMI	EN	rs (Includ	ing Author, Title, D	ate, Pert	inent Pages,	Etc.)	
11	Liv	insg	ton	P.O	., et	al.,	"Studies o	n the Immunogenicity	of Synth	etic and Natu	ral Tho	msen-
M	Frie	dhe	nre	ich (TF)	Ant	igens in M	ice: Augmentation of	the Resp	onse by Quil	A and S	AF-m
	Adj	uvai	nts	and	Anal	ysis	of the Spe	ecificity of the Respon	ses", Vac	cine Research	n, Vol.	l, No. 2,
	199	2, p	age	es 99	-109	(E	xhibit 7)			=		
M								on of Breast Cancer P	•			
	Gly	coc	onjı	ugate	Plu			ant", Cancer Immuno	ol. Immun	other., Vol. 3	6, 1993	, pages
EXAMINER	, ,						DATE CON				•	
	<i>epto</i> itial	if ci	tat	ion c	onsid	erec		not citation is in con-	formance wi	th MPEP 609: Di	aw line	through
								nclude copy of this form				

									*			S	heet 4	.£ 7
Form PT	O-14	49				U.S Pat	. D	epartment and Trad	t of Commerce lemark Office	R	Atty. D cl	ket N.	Serial N	
	INF	OR	MA	TIC)N 1	DIS	CI	OSURE (THE A THE A THE	DEC	Applicant Philip C	. Livingston	et al.	
								s if necess:	ary)	199	Filing Dat 06.07/9	e	Group 3508	
								U.S. PA	TENT DOCUM	CAP	Silling			
Examiner Initial		r	ocun	ient	Nun	ıber		Date	Name		Class	Subclass	Filing D	
		+	+											-
	-	+	+	+	\vdash									
		\dagger	+	+	╁		-							
	\dashv	\dagger	+	+	╁╌		H							
		\top	+	+			\vdash						<u> </u>	
		\dagger	+	\dagger	T		Н							
		+												
		+		1										
							F	OREIGN	PATENT DOC	UME	ENTS			
		Do	cum	ent	Nu	mb	er	Date	Country		Class	Subclass	Trai	nslation
													Yes	No
		\perp	\bot		<u> </u>	Ц			· · · · · · · · · · · · · · · · · · ·					·
		_				Ш	Ш				ļ		ļ	
		\bot	\bot		igspace	Ш							<u> </u>	
		\perp		╄	igspace								-	
													<u> </u>	
								ΓS (Includ	ing Author, Tit	le, D	ate, Perti	inent Pages,	Etc.)	
	2	15-	222	(Ex	hibi	it 8)		<u></u>						
	-		т				1 ((A . 4 * T			0	O D-4'		
И									munization of Hu					
μ	IC.	νοπ	unor	ı Ca	ii Cin	win	a (l	i nomsen-Fi	riedenreich) Dete	er iiiii	ant USINg	s a symmetic i	Caroony	uiaic

EXAMINER DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Antigen", Journal of Immunotherapy, Vol 11, 1992, pages 292-305 (Exhibit 9)

Form PTC	-1449)			U.S Pat	. D ent	epartment and Trad	t of Commerce	IL RO		В	Serial N 08/477	
]	NFO]			ION .	DIS	CL	LOSURE C	TTATION _{AD}	15	Applicant Philip O	. Livingston	et al.	
		(U:	se s	evera ——	l sh	eet:	s if necessa	ary)	1995	Filing Dat 06/97/9	e 5	Group 3508	
							U.S. PA	TENT DOCU	WENT			1	
Examiner Initial	+	Docu	ume	nt Nun	1ber		Date	Name		Class	Subclass	Filing Date if Appropriate	
			\exists	\pm									
	+	\vdash	\dashv	_	\dashv								
			\exists	\pm									
	+	H	\dashv	_	H								
	1		\downarrow	\bot					·				
	\dashv	H	\dashv	+	H					<u>-</u> -			
	1_		\exists	士									
						F	OREIGN	PATENT DO	CUME	NTS			
	D	ocu	mer	nt Nu	mb	er	Date	Country	7	Class	Subclass	Translation	
	\bot	<u> </u>										Yes	No
	+	$\vdash \vdash$	\dashv	+	\vdash		·						
	+	H	\dashv		H								
			\dashv	-	\prod	\square							
			\Box										-
	<u>ot</u>	HE	R D	OCU	JMF	<u>en</u>	ΓS (Includ	ing Author, Ti	itle, Da	ate, Perti	nent Pages,	Etc.)	
n	Ma	rcia	ni I).J., e	t al.	<u>,"(</u>	3enetically-	engineered Sub	ounit V	accine A	gainst Feline	Leukaer	nia Virus:
							<u> </u>	Cats", Vaccine, V					
n								djuvant Inductio					
-								irnal of Immuno	ology,	Vol. 148,	No. 8, April	15, 199	2,
	Pag	zes z	<u> </u>	1-230	<u> 2 (E</u>	וואנ	ibit 11)						
EXAMINER	Ñ-62	Mr.	,				DATE CON	SIDERED					
*EXAMINER: In	nitial	if c	itat				d, whether or	not citation is					

.

Form PTC	D-1449			U.S Pat	S. Depar	tment o	f Commer nark Office	· ·	Atty. Doc 245016-	ket No.	Serial N 08/477	
	DIEOD	3 <i>5</i> 4 7	TYO:				ration ²	DEC 15	Applicant			<u> </u>
							1	1995	Filing Dat). Livingston		
	.(USE	seve	erai sii	ieets ii ii	iecessary		RADE	Filing Dat 06/07/9		Group 3508	
					U.	S. PATE	ENT DOCU	JMENT	ΓS			
Examiner Initial	D	ocum	ent N	Number	Date		Name		Class	Subclass	Filing Date if Appropriate	
			1-1								<u> </u>	
		_										
		\bot	\sqcup	_	<u> </u>						1	
		+	\sqcup						ļ		-	
		-	$\frac{1}{1}$							<u> </u>		
	\dashv	+	\vdash									
		+	\Box									_
		1	\Box									· · · · · ·
			П									
	1											
					FORE	EIGN PA	TENT DO	CUMI	ENTS			
	Do	cum	ent l	Numb	er D	ate	Count	ry	Class	Subclass	Trai	nslation
ļ					,						Yes	No
									ļ			
		_	\sqcup							<u> </u>		
		-	\vdash							1		
			Щ								<u> </u>	
Г										inent Pages,		
1 1									luman Cai	ncer Cells", S	eminars	in Cancer
'							9 (Exhibit		unith Dunit	Fod CD2 Com	مانمونام	and GD3
M										ied GD3 Gan Immunobiol.,		
				Exhib		ue anu O	angnosidor) III the	wiouse,	minunooioi.,	1770, 1	701. 102
1												
	page	<u></u>	(
EXAMINE						E CONSII	_					

												1		heet7_	of 7_
Form PT	O-1	449)							t of Comm lemark Of		Atty. Doc 43016	D	Serial N 08/477	
	INF	Oī	RM	[A]	CIO					CITATIO ary)		Applican). Livingston		,007
			(U	se s	sev	era	l sh	eet		1	199	Filing Da 5 06497/9	te 95	Group 3508	
									U.S. PA	TENT DO	CEMEN	ESHIFE			
Examiner Initial			Doc	ume	ent l	Nun	ıber		Date	Ns	ıme	Class	Subclass	Filing D	
-											· ·				
						_								<u> </u>	<u></u>
,														 	
					-	_									
												1	1 -		
												<u> </u>			
										<u></u>			1		
	ı							F	OREIGN	PATENT	DOCUM	ENTS	1	1	
		D	ocu	me	nt	Nu	mb	er	Date	Cou	ntry	Class	Subclass		nslation
			_							ļ		<u> </u>		Yes	No
												<u> </u>		1	
		\dashv				-	H					-		<u> </u>	
		\dashv	\dashv											<u> </u>	
												1	 		
)T	HE	R I	00	CU	MI	ENT	rs (Includ	ling Autho	r. Title. D	ate. Pert	inent Pages,	Etc.)	
, ,													cific Immune		ses to an
μ													l. 148, 1992, j		
			hib						· · · · · · · · · · · · · · · · · · ·						
	. t	•													

EXAMINER

DATE CONSIDERED

L/7/jw/s

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.